

2010 Mathematics Tests Standard and Performance Indicator Map with Answer Key Grade 5

Question	Type	Points	Strand	Content Performance Indicator	Answer Key
Book 1					
1	Multiple Choice	1	Measurement	5.M02 Identify customary equivalent units of length	C
2	Multiple Choice	1	Geometry	5.G07 Know that the sum of the interior angles of a triangle is 180 degrees	A
3	Multiple Choice	1	Algebra	4.A02 Use the symbols $<$, $>$, $=$, and \neq (with and without the use of a number line) to compare whole numbers and unit fractions and decimals (up to hundredths)	B
4	Multiple Choice	1	Number Sense and Operations	5.N02 Compare and order numbers to millions	D
5	Multiple Choice	1	Number Sense and Operations	5.N17 Use a variety of strategies to divide three-digit numbers by one- and two-digit numbers <i>Note: Division by anything greater than a two-digit divisor should be done using technology.</i>	A
6	Multiple Choice	1	Geometry	5.G09 Identify pairs of congruent triangles	C
7	Multiple Choice	1	Number Sense and Operations	5.N16 Use a variety of strategies to multiply three-digit by three-digit numbers <i>Note: Multiplication by anything greater than a three-digit multiplier/multiplicand should be done using technology.</i>	C
8	Multiple Choice	1	Number Sense and Operations	5.N20 Convert improper fractions to mixed numbers, and mixed numbers to improper fractions	B
9	Multiple Choice	1	Geometry	5.G05 Know that the sum of the interior angles of a quadrilateral is 360 degrees	C
10	Multiple Choice	1	Number Sense and Operations	5.N15 Find the common factors and the greatest common factor of two numbers	C
11	Multiple Choice	1	Statistics and Probability	4.S04 Read and interpret line graphs	B
12	Multiple Choice	1	Geometry	4.G08 Classify angles as acute, obtuse, right, and straight	D
13	Multiple Choice	1	Algebra	5.A04 Solve simple one-step equations using basic whole-number facts	C
14	Multiple Choice	1	Geometry	5.G04 Classify quadrilaterals by properties of their angles and sides	B

**2010 Mathematics Tests Standard and Performance Indicator Map with Answer Key
Grade 5 (continued)**

Question	Type	Points	Strand	Content Performance Indicator	Answer Key
Book 1 (continued)					
15	Multiple Choice	1	Algebra	5.A02 Translate simple verbal expressions into algebraic expressions	D
16	Multiple Choice	1	Number Sense and Operations	5.N01 Read and write whole numbers to millions	C
17	Multiple Choice	1	Number Sense and Operations	5.N22 Add and subtract mixed numbers with like denominators	A
18	Multiple Choice	1	Geometry	5.G02 Identify pairs of similar triangles	A
19	Multiple Choice	1	Number Sense and Operations	4.N25 Add and subtract decimals to tenths and hundredths using a hundreds chart	C
20	Multiple Choice	1	Algebra	5.A03 Substitute assigned values into variable expressions and evaluate using order of operations	A
21	Multiple Choice	1	Number Sense and Operations	4.N23 Add and subtract proper fractions with common denominators	D
22	Multiple Choice	1	Statistics and Probability	5.S03 Calculate the mean for a given set of data and use to describe a set of data	C
23	Multiple Choice	1	Number Sense and Operations	5.N10 Compare decimals using $<$, $>$, or $=$	D
24	Multiple Choice	1	Number Sense and Operations	5.N05 Compare and order fractions including unlike denominators (with and without the use of a number line) <i>Note: Commonly used fractions such as those that might be indicated on ruler, measuring cup, etc.</i>	C
25	Multiple Choice	1	Geometry	5.G10 Identify corresponding parts of congruent triangles	D
26	Multiple Choice	1	Number Sense and Operations	5.N08 Read, write, and order decimals to thousandths	D
Book 2					
27	Short Response	2	Algebra	5.A06 Evaluate the perimeter formula for given input values	n/a
28	Short Response	2	Measurement	5.M08 Measure and draw angles using a protractor	n/a
29	Short Response	2	Algebra	5.A08 Create algebraic or geometric patterns using concrete objects or visual drawings (e.g., rotate and shade geometric shapes)	n/a
30	Short Response	2	Geometry	5.G08 Find a missing angle when given two angles of a triangle	n/a
31	Extended Response	3	Number Sense and Operations	5.N11 Understand that percent means part of 100, and write percents as fractions and decimals	n/a
32	Extended Response	3	Geometry	5.G01 Calculate the perimeter of regular and irregular polygons	n/a

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Grade 5 (continued)**

Question	Type	Points	Strand	Content Performance Indicator	Answer Key
Book 2 (continued)					
33	Extended Response	3	Statistics and Probability	5.S02 Display data in a line graph to show an increase or decrease over time	n/a
34	Extended Response	3	Measurement	5.M07 Calculate elapsed time in hours and minutes	n/a